## **2.4 EVENT HANDLING**

The change in the state of an object is known as an **Event**. In html, there are various events which represents that some activity is performed by the user or by the browser. When java script code is included in HTML, js react over these events and allow the execution. This process of reacting over the events is called **Event Handling**. Thus, js handles the HTML events via **Event Handlers**.

**For example**, when a user clicks over the browser, add js code, which will execute the task to be performed on the event. Some of the HTML events and their event handlers are:

| Event Performed | Event Handler | Description   |
|-----------------|---------------|---|
| click           | onclick       | When mouse click on an element                      |
| mouseover       | onmouseover   | When the cursor of the mouse comes over the element |
| mouseout        | onmouseout    | When the cursor of the mouse leaves an element      |
| mousedown       | onmousedown   | When the mouse button is pressed over the element   |
| mouseup         | onmouseup     | When the mouse button is released over the element  |
| mousemove       | onmousemove   | When the mouse movement takes place.                |

Mouse events:

# Keyboard events:

| Keydown & Keyup | onkeydown & onkeyup | When the user press and then release the key |
|-----------------|---------------------|--|
|                 |                     |  |

### Form events:

| Event<br>Performed | Event<br>Handler | Description   |
|--------------------|------------------|---|
| focus              | onfocus          | When the user focuses on an element                           |
| submit             | onsubmit         | When the user submits the form                                |
| blur               | onblur           | When the focus is away from a form element                    |
| change             | onchange         | When the user modifies or changes the value of a form element |

## Window/Document events

| Event<br>Performed | Event<br>Handler | Description   |
|--------------------|------------------|---|
| load               | onload           | When the browser finishes the loading of the page                   |
| unload             | onunload         | When the visitor leaves the current webpage, the browser unloads it |
| resize             | onresize         | When the visitor resizes the window of the browser                  |

Let's discuss some examples over events and their handlers.

#### **Click Event**

```
<html>
        <head> Javascript Events </head>
       <body>
       <script language="Javascript" type="text/Javascript">
          <!--
          function clickevent()
          {
            document.write("This is JavaTpoint");
          }
          //-->
        </script>
        <form>
       <input type="button" onclick="clickevent()" value="Who's this?"/>
        </form>
        </body>
        </html>
Output:
```

This is JavaTpoint Javascript Events Who's this?

This is JavaTpoint

### **MouseOver Event**

<html>

<head>

<h1> Javascript Events </h1>

</head>

<body>

```
<script language="Javascript" type="text/Javascript">

<!--

function mouseoverevent()

{

alert("This is JavaTpoint");

}

//-->

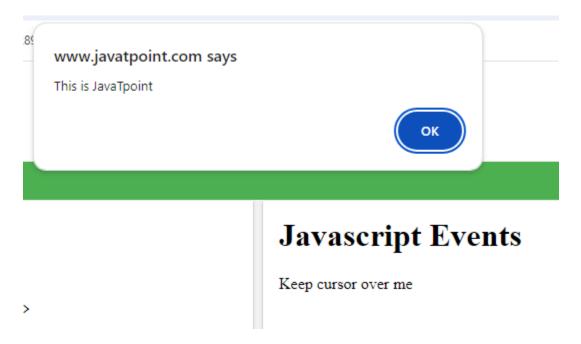
</script>

 Keep cursor over me
```

</body>

</html>

#### **Output:**



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